



## MAPPING GANG CRIME:

Orange County, California Gang Incident Tracking System (GITS)

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*\*The views presented here are my own and do not necessarily represent the policies or position of the U.S. Department of Justice.*

## GIScience and Crime

- Locate crimes and track trends
- Target problem areas
- Evaluate results of prevention and intervention efforts
- Present results understandably and locate them in the physical world
- Explore complex causal issues

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## GITS (1992-2003)

- Comprehensive approach to gangs by Orange County Chiefs & Sheriff's Assn.
  - Regional, 22 local police chiefs & sheriff plus
    - County Marshal
    - FBI
    - Probation
    - District Attorney
    - School Districts

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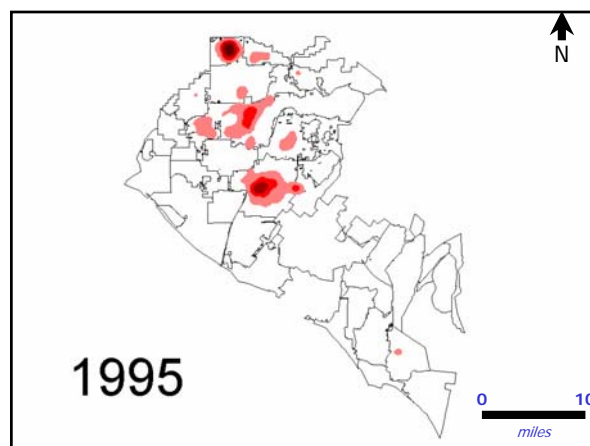
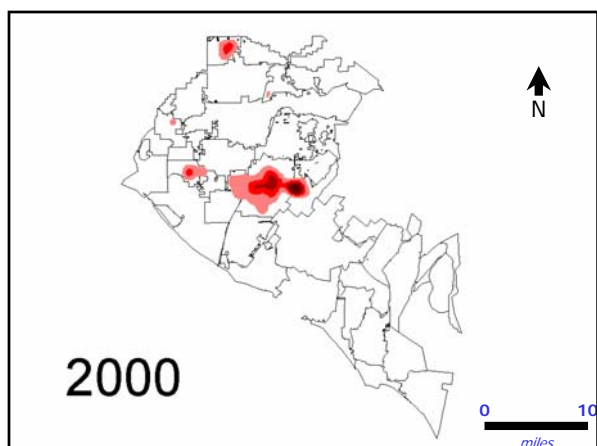
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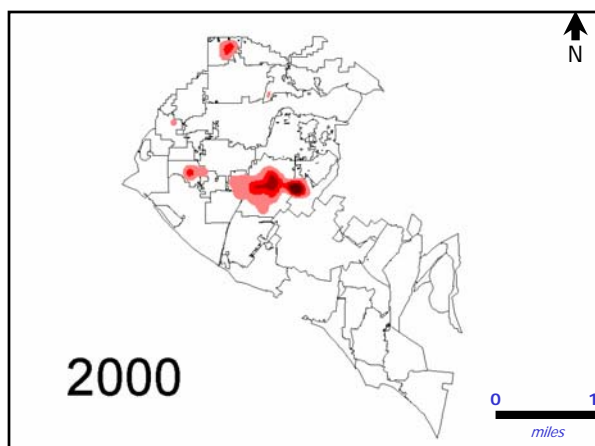
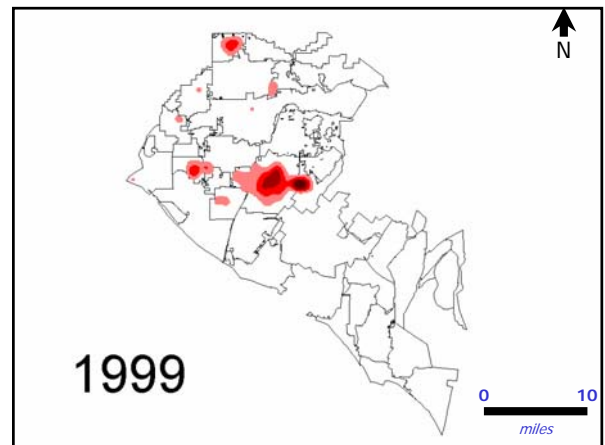
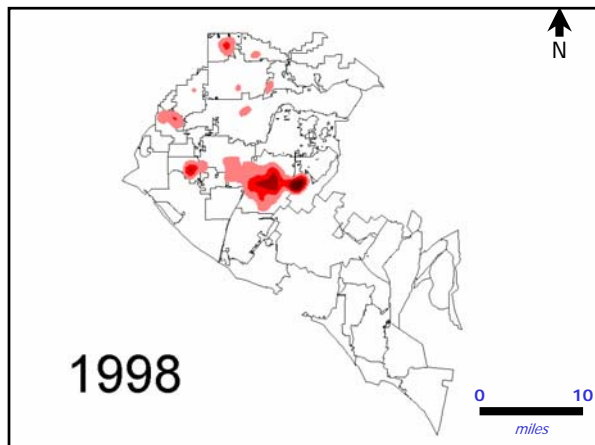
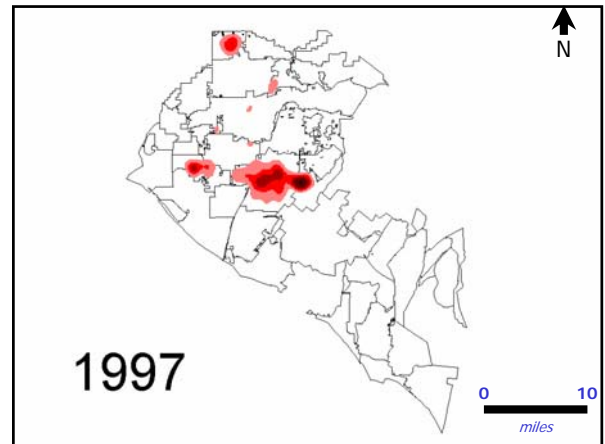
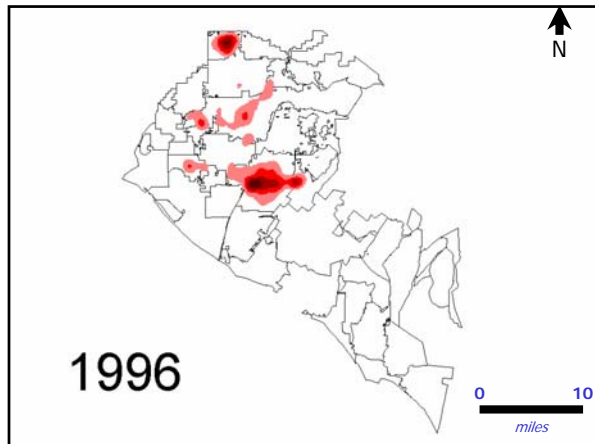
## GITS Goals


- Create centralized database for gang-related crime
- Develop valid, reliable measures of gang-related crime in county
  - Not just "gang motivated" crime
- Establish baseline data against which to evaluate gang prevention, control, & suppression efforts

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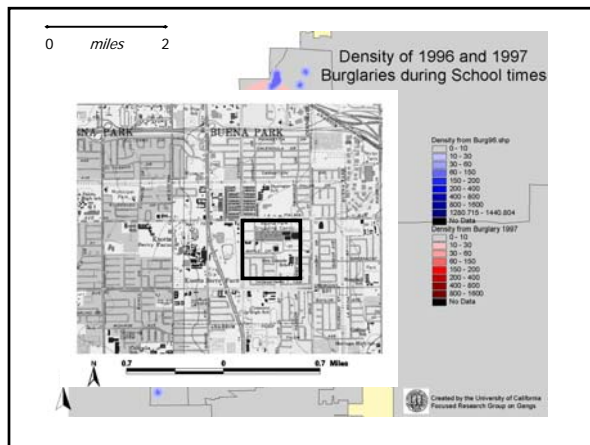
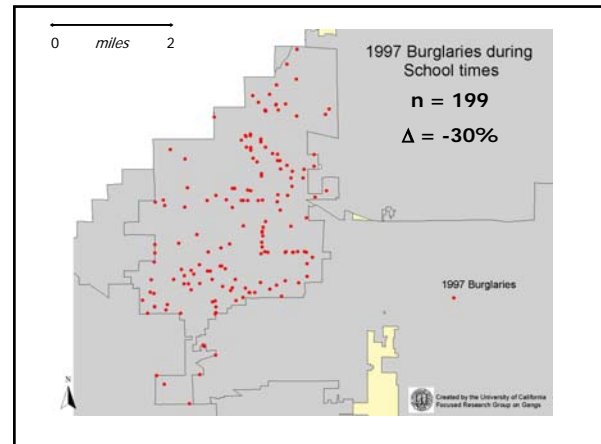
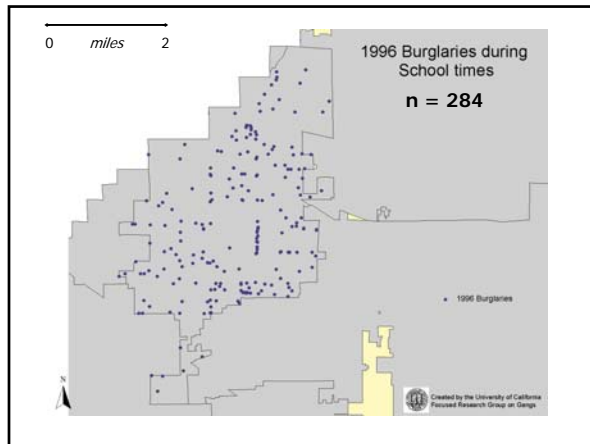




## Prevention Strategy Evaluation

- Problem: Day-time burglaries in Buena Park, Calif.
- Intervention: Police enforce new daytime curfew for school-age youth
- Use GIScience to test effect of daytime curfew on burglaries during school days

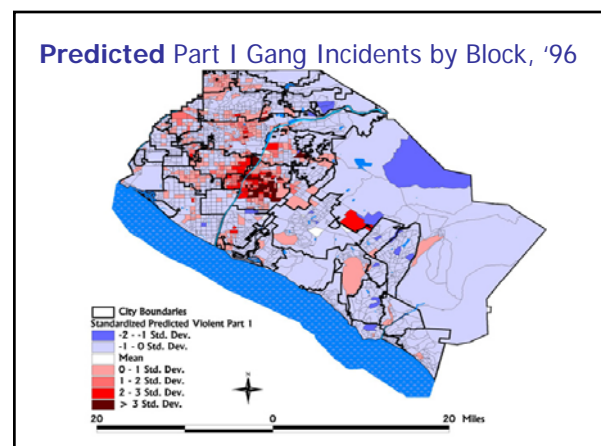
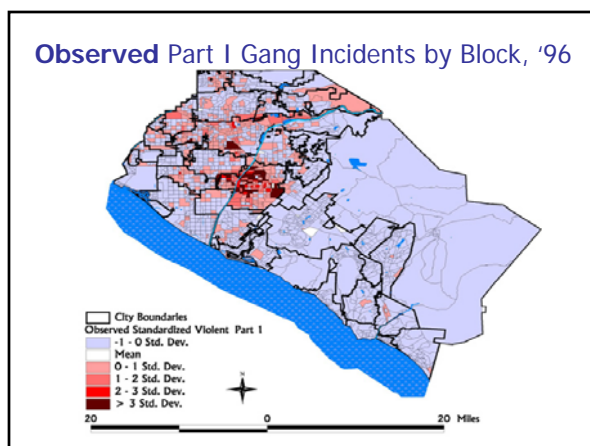
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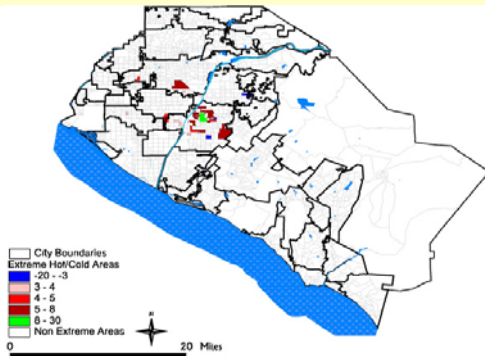
## Exploratory Research

- What's out there that we don't understand or expect?
- Research approach:
  - Build strong predictive model using social disorganization variables:
    - Race, SES, poverty, social ties, percent youths, single-parent households, etc.
  - Compare predicted concentration of crime with observed concentration

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## HOTTER & COLDER Blocks, '96



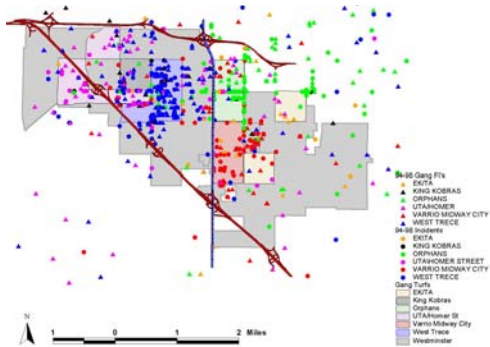
## Using GIS to Establish Civil Abatement Areas

- City attorney relies on police
  - Expert witness testimony
  - Identification of gang members
  - Evidence to define areas abated
- Police rely on city attorney
  - Obtain court order for injunctive relief

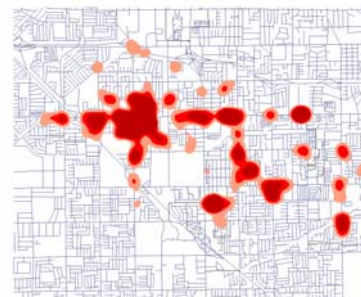
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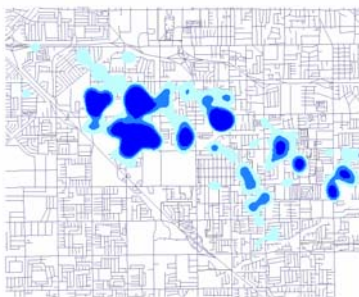
## Westminster Incidents & FI's



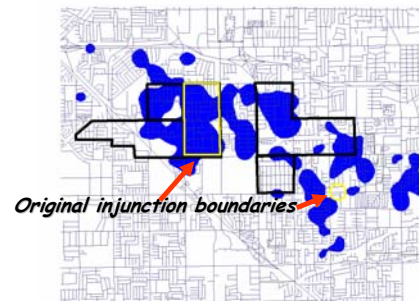
## Gang Crime Hot Spots



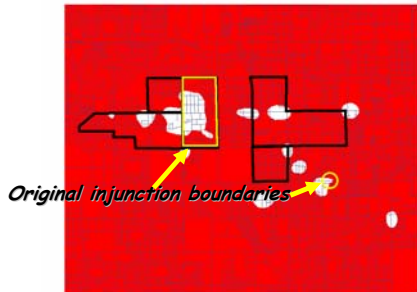
## Gang Residency Hot Spots



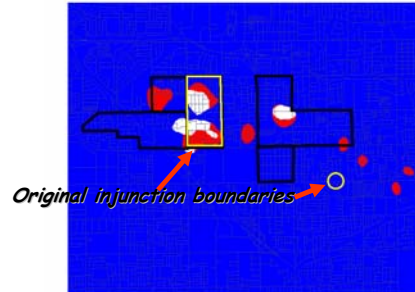
## Combined Residency/Incident Hot Spots



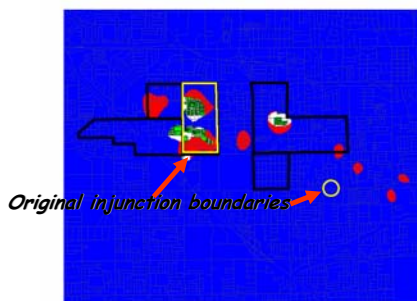
## Hot Spots, Territories & Abatement Areas



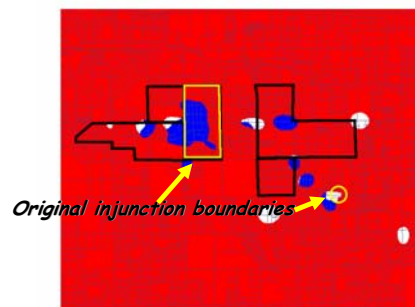
## Matching Gang Crime Incidents to Gang Member Residence



## Residential Parcels Most Affected by Gang Crime and Residency



## Gang Crime and Low Levels of Gang Residency



## High Gang Incidents in Commercial Areas Outside Gang Turf or Residency Concentrations

